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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/650,566	08/30/2000	Kishore K. Chakravorty	884.315US1	8541
21186	7590 11/20/2002			
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.			EXAMINER	
P.O. BOX 2938 MINNEAPOLIS, MN 55402		* 1	PHAN, THANH S	
			ART UNIT	PAPER NUMBER
			2841	
			DATE MAILED: 11/20/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)						
		09/650,566	CHAKRAVORTY ET AL.						
•	Office Action Summary	Examiner	Art Unit						
		Thanh S Phan	2841						
The MAILING DATE of this communication appears on the cov r sh t with th correspond nce address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)🛛	Responsive to communication(s) filed on <u>12 August 2002</u> .								
2a)□	This action is FINAL . 2b)⊠ Th	is action is non-final.							
3)□ Disposit	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. sposition of Claims								
· _	4)⊠ Claim(s) <u>1-10 and 28-40</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.									
5)□	Claim(s) is/are allowed.	with from consideration.							
	6)⊠ Claim(s) <u>1-10 and 28-40</u> is/are rejected.								
7) Claim(s) is/are objected to.									
8)	Claim(s) are subject to restriction and/o	r election requirement.							
Applicat	ion Papers								
9)[9) The specification is objected to by the Examiner.								
10)⊠	10)⊠ The drawing(s) filed on <u>30 August 2000</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)	11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.									
12)☐ The oath or declaration is objected to by the Examiner.									
Priority	under 35 U.S.C. §§ 119 and 120								
13)	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119((a)-(d) or (f).						
a)	☐ All b)☐ Some * c)☐ None of:								
	1. Certified copies of the priority documents	s have been received.							
	2. Certified copies of the priority documents have been received in Application No								
* (3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
_ a	a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachmen	(,						
1) Notic 2) Notic	ce of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) 11	5) Notice of Informal	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)	<u> </u>					

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DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "embedded capacitor", "first and second terminals", and the limitations of claims 2, 4, 6, 32, 34 and 36 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-10, 28-40 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Applicant should clarify the claimed structures.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-10, 28-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arima et al. [US 5,281,151] in view of Branchevsky [US 6,252,761]; Arima as modified; herinafter.

Arima et al. discloses a multilayer substrate for mounting a die [figure 1] comprising: a ceramic portion [2] comprising a plurality of lands on its first and second surface; an organic portion [3] comprising a plurality of conductors [7, 8].

Branchevsky teaches of a ceramic substrate comprise an embedded capacitor with multiples terminals/electrodes to provide electrical connection.[column2, lines 54-59; column3, line 13].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Branchevsky's teachings with Arima et al.'s substrate for the purpose of increasing capacitance.

Regarding claims 2, 4, 6, 32, 34 and 36, Arima as modified disclose the claimed invention except for the claimed arrangement of lands with respect to the terminals. It would have been obvious to one ordinary skill in the art at the time of the invention was made have the such arrangements, since such arrangements perform the same functions.

Regarding claims 28-30, the method steps are correspond to the obviousness rejection of the structural apparatus.

Response to Arguments

Applicant's arguments with respect to claims 1-10, and 28-40 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Ahiko et al. [US 6,104,599], Shinohara et al. [US 5,177,670], Chakravorty [US 6,452,776].

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh S Phan whose telephone number is 703-305-0069. The examiner can normally be reached on M-F 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David S Martin can be reached on 703-308-3121. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7722 for regular communications and 703-305-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

TSP November 4, 2002

DAVID MARTIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800